POKROVSKAYA, V.M.; POLYANSKAYA, T.N.; PROZOROVSKIY, N.A.

Topographic distribution of Draba sibinica (Pall.) Thell in Ryazan Province. Biul. MOIP. Otd. biol. 68 no.2:137-139 Mr-Ap '63. (MIRA 17:2)

POKROVSKAYA, V. V.

"Observations of Plants From the Northern Steppes in the Mursery in Connection With the Problem of Introducin; Them as Crops." Cand Biol Sci, Moscow State U, Moscow, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

Grinding the taps. Mashinostroitel' no.2/3:50-54 E-D '56.

(Grinding and pelishing) (Taps and dies) (MIRA 12:1)

POKROVSKAYA, V. M. Cand Tech Sci -- (diss) "The Operations of Power Taps."

Serew Cutting Machines." Mos, 1957. 15 pp 20 cm. (Min of Higher Education USSR, Mosess Order of Lenin and Order of Labor Red Banner Higher Technical School im Bauman), 100 copies (KL, 16-57, 100)

-11-

POKROVSKAYA, V.M.

PA - 2528

AUTHOR: TITLE:

ABSTRACT:

On the Dynamics and the Temperature of the Cutting of Machine-POKROWSKAJA, W. M., engineer

driven Thread Cutting Tools. (Dinamika i temperatura rezanija pri

rabote maschinnymi metschikami, Russian). PERIODICAL: Latvijas PSR Zinatnu Akad. Westis, 1957, Vol 1, Nr 2,

pp 135 - 152 (U.S.S.R.)

Reviewed: 6 / 1957

Improvement of the quality of threads is possible on the basis of a sound knowledge of various factors which are of importance in the course of thread-cutting. The dynamics and the temperature of this process are influenced by the size of the device, by the geometric parameters, and by the velocity of cutting. In order to determine the most rational manner of threadcutting by means of a machine tool as well as to ascertain dynamic dependences investigations were carried out. The papers published by Dr.G.I.Granowski, Roshdestwenski, and Romanow deal with this problem. The rear edges of the cutting parts of the device above all influence the amount of the moment of rotation if they are small (ill. 6 - 8). The temperature characterizes the stress on the cutting parts. With equal stress of the process it is possible to allow different kinds of cutting processes, so stat a variety of instruments can be used (for different types of work). (18 illustrations pp 137 - 150).

Card 1/2

# Classification of stages of growth of plants. Vest.Mosk.un. Ser.biol.,pochv.,geol.,geog. 13 no.4:199-201 '58. (MIRA 12:4) 1. Kafedra biogeografii Moskovskogo universiteta. (Growth (Plants))

POKROVSKAYA, V.M., kand.tekhm.nauk; PODSUSHNYY, A.M., otv.rd.

[Strength of machine taps] Stoikost' mashinnykh btchikov.
Vladivostok, 1959. 8 p. (Vladivostok. Dal'nevostochnyi politekhnicheskii institut. Trudy, vol.52, no.9) (MIRA 14:4)

(Taps and dies)

### POKROVSKAYA, V.M.

Results of observations on the life cycle of steppe plants under nursery conditions. Biul. Glav. bot. sada no. 35:31-35 '59.

(MIRA 13:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Streletskoye Steppe Preserve-Steppe flora)

GAKEL, R.A. kand.tekhn.nauk; Prinimali uchastiye: KARGIN; FOKROVSKAYA, V.N., inzt.

Mechanization of the cleaning of carding machines. Nauch. ssl. trudy TSNIIShersti nc.18:39-51 63. (MIRA 18:1)

l. Starshiy inzhener nauchno-issledovatel skoy laboratorii pri Kupavinskoy fabrika (for Kargin). 2. Kupavinskaya fabrika (for Pokrovskaya).

Study of the working process of a hydraulic feeder. Zap. LGI 41 no.1:120-129 '59. (Hydraulic conveying)

POKROVSKAYA, Vera Mikolayevna; KUHENKOV, I.I., redaktor; KOROVENKOVA, Z.A., teknicheskiy redaktor

[Mechanising the purification of a mine's water supply] Mekhanisatsiia ochistki shakhtnykh vodosbornikov. Moskva, Ugletekhisdat, 1955. 109 p.

(Water--Purification) (MLRA 9:1)

properties of feeder term chemical eleming of mine retermed miletary in hydroulic transport tion of cludge." Len, 1958. 28 pp with drawings (Tim of Sigher Minerties of the Len Order of Lenin and Order of Labor Wed Denmer Pining Inst in G.V. Plathanov), 100 on ice. Fristed an Suplicating argumentum. (Fi, 31-5°, 103)

63 -

# POKROVSKAYA, V.W. inzh.

Investigating the performance of a hydraulic feeder in delivering granular materials into pressure pipelines. Nauch. dokl. vys. shkoly; gor. delo no.2:271-279 158. (MIRA 11:6)

1. Predstavlena kafedroy rudnichnogo transporta Leningradskogo gornogo instituta im. G.V. Plekhanova.

(Mine pumps)

POLEVOY, Viktor Vasil'yevich; POKROVSKAYA, Vera Nikolayevna; FAKTOROVICH,

Abram Mikhaylovich; GERONT'YEV, V.I., prof., doktor tekhn.nauk, obshchiy
red.; MEDVEDEV, L.G., otv.red.; KOLOMIYTSEV, A.D., red.izd-va;
SHKLYAR, S.Ya., tekhn.red.

,这种是一种,我们就是一种,我们就是一种,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就会

[Cable belt conveyors] Lentochno-kanatnye konveiery. Pod obshchei red. V.I.Geront'eva. Moskva, Ugletekhizdat, 1959. 52 p. (MIRA 12:4) (Conveying machinery) (Mining machinery)

POKROVSKAYA, Vera Nikolayevna; GUDALOV, V.P., otv. red.; ABRAMOV, V.I., red. izd-va; SHKLYAR, S.Ya., tekhn.red.

[Mechanization of mine loading and transfer points] Mekhanizatsiia shakhtnykh pogruzochnykh i peregruzochnykh punktov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 111 p. (MIRA 14:9)

(Ore handling—Equipment and supplies)
(Automatic control)

POKROVSKAYA, V.N., kand. tekhn. nauk; GRACHEV, N.P., kand. tekhn. nauk

Automatic, small-scale, chamber-type, hydraulic feeder. Gor.
zhur. no.8:59-62 Ag \*64. (MIRA 17:10)

1. Leningradskiy gornyy institut.

YAKOBSON, M.O.; FOKROVSKAYA, V.S.

Investigating processes of fine planing rectilinear guides.

Stan. 1 instr. 29 no.3:7-10 Mr '58. (MIRA 12:1)

(Metal cutting)

POKROVSKAYA, V.S. (Krasnodar)

Agricultural-meteorological observations in schools. Geog.v
shkole 22 no.6:72-74 N-D '59. (MIRA 13:4)
(Krasnodar Territory--Meteorology, Agricultural)

POKROVSKAYA,/E.

Determination of the viscosity of alkaline solutions of viscose rayon. Pakshver, S. Frolov and E. Pokrovskaya. Trans. Inst. Chem. Tech. Ivanovo (U.S.S.R.) 1940, No. 3, 189-91.--Dissolve a sample of air-dry viscose rayon (with a known moisture content) with mixing in a glass contg. 8% NaOH and keep it in a cooling mixt. at -5°. After soln. remove the glass from the cooling mixt., let the temp. rise to 200, pour the soln. into a bulb used for the detn. of n of cuprammonium cellulose soln., keep it in a thermostat at 200 and det. the n of cellulose (I). One percent solus. of I in a base can stand without the sepn. of I from the soln. for 10-14 hrs., after which a turbidity and white flakes appear. Standing of the soln. in open air and air blowing through the soln. do not change the  $\eta$  of the basic soln. I dissolves somewhat more rapidly in an 8% soln. of NaOH contg. 1% of ZnO, and the sepn. of I takes place after a longer period of time. The relative n of the I soln. in an 8% base is less than that in a similar base contg. 1% of ZnO. The basic solns. of I are considerably more stable than are the cuprammoniam solns. and they can be used in some cases (in investigating the properties of viscose silk and staple fiber) for measuring the  $\eta_{\bullet}$ 

W. R. Henn

S.M.

POKROVSKAYA, Ye., arkhitektor

Workshop for repairing agricultural equipment on the "Zarya Kommunizma" state farm. Sel'.stroi. no.8:11-13 Ag '62.

(Agricultural machinery--Maintenance and repair)

(Agricultural machinery--Maintenance and repair)

### "APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341630005-8

FORMWARE, No.; COMMING., 1.

Universal types of storage for potatoes, vegetables and Fruit.

Sev. torg. 35 no.11:53-56 N '61. (NEWA 14:16)

(Farm produce--Storage)

POKROVEKAYA, YE. A. Agriculture & Pland & Animal Industry Utilization of horses and draft animals. Saratovskoe obl. gos. izd-vo, 1951.

\_195%.2Unclassified. 9. Monthly List of Russian Accessions, Library of Congress, April

POKROVSKAYA, Ye. A. Dr. ague Sci.

"Colostrum; Its Nutritional and Prophylactic Significance in Raising Calves," Sub. 31 Jan 47, Moscow Zooveterinary Inst.

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum.No.457, 18 Apr 55

S/195/60/001/003/012/013 B002/B058

AUTHORS:

Rozovskiy, A. Ya., Shchekin, V. V., Pokrovskaya, Ye. G.

TITLE:

Effect of the Internal Diffusion Inhibition on the Kinetics

of the Ethylene Hydrogenation Reaction

PERIODICAL:

Kinetika i kataliz, 1960, Vol. 1, No. 3, pp. 464-470

TEXT: This paper was read at the Vsesoyuznaya konferentsiya po organicheskomu katalizu (All-Union Conference of Organic Catalysis) held in Moscow on November 18, 1959. Three samples of a nickel-aluminum catalyst of various grain size were used for the study; F. V. Korenevskaya of various grain size were used for the adsorption. The kinetics of the determined the properties by measuring the adsorption. The kinetics of the ethylene hydrogenation on these catalysts was studied between 80 and 140°C, which is the hydrogenation proceeds as first-order reaction, apart from the inhibition by the reaction products; the apparent activation energy was calculated tion by the reaction products; the apparent activation inhibition for all three catalysts as 4.1 kcal/mole. A strong diffusion inhibition takes place thereby; the reaction proceeds in the range of internal diffusion. The activation energy amounted to 8.2 kcal/mole for the kinetic range of the reaction. A comparison between experimental and calculated values shows

Card 1/3

S/195/60/001/003/012/013 B002/B058 Effect of the Internal Diffusion Inhibition on the Kinetics of the Ethylene Hydrogenation Reaction

that the inhibition through internal diffusion can be well represented by

the previously given equation (Ref. 1):  

$$\alpha = v_0 \ln \frac{1}{1-y} - \beta \cdot v_0 \cdot y, \quad \alpha \text{ being } \frac{\sqrt{K_h \text{ r D}_k^1 \text{ S}_g}}{L\sqrt{2} (1+n+\delta)} = \frac{K_h \text{ S}_g^f}{1+n+\delta}, \quad \beta = \frac{n-1/4 \text{ B}}{1+n+\delta},$$

v the specific rate of addition in mole/g·sec; y rate of reaction; K, observed rate constant of the heterogeneous catalytic reaction of first order in mole/cm<sup>2</sup>  $\cdot$  sec; r mean radius of pores in cm;  $D_K^t$  diffusion coefficient in mole/cm·sec; S<sub>g</sub> specific catalyst surface in cm<sup>2</sup>/g; L distance between catalyst grain surface and the center in cm; n change of the molar number through the reaction; & degree of dilution; B the parameter determining the order of reaction in the kinetic range; f factor of internal diffusion inhibition. R. D. Obolentsev and A. V. Mashkina are mentioned. There are 4 figures, 5 tables, and 8 references;

Card 2/3

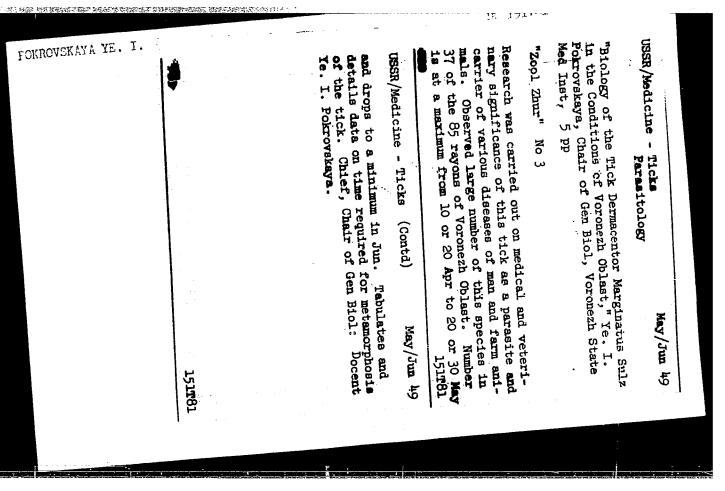
ROZOVSKIY, A.Ya.; BASHKIROV, A.N.; KAGAN, Yu.B.; POKRGVSKAYA, Ye.G..

Water and water vapor oxidation of the iron catalysts for synthesis from CO and H<sub>2</sub>. Kin.i kat. 2 no.6:830-837 N-D '61.

(MIRA 14:12)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Carbon monoxide)
(Hydrogon)

(Catalysts, Iron)



# POKROVSKAYA, Ye.I.

Ecology of larvae and nymphs of the tick Dermacenter marginatus Suls. in the Voronesh region. Zool. shurnal 30 no.3:224-228 May-June 51.

1. Department of General Biology (Head-Docent Ye.I. Pokrovskaya), Veronezh State Medical Institute.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341630005-8"

POKROVSKAYA, Ye. I.; VOLGOV, Ya. S.

"An experiment of anti-mites treatment with DDT and Benzene Hexachloride  $C_6H_6Cl_6$  under the conditions of Voronezh Oblast'.

So: Vet. 29 (3) 1952, p. 24-26

Cattle and horses treated with oil prepns of 2.5-5.0% DDT or hexachlorocyclohexane just begore, and again at 10 day intervals (3 treatments) after return to pasture suffices to prevent invasion by D.marginatus and Ix. ricinus. The acaricidal action of the substances declines rapidly 7-10 days after application.

POKROVSKAYA, Ye.I., zaveduyushchaya.

Effect of DDT and hexachlorocyclohexane preparations upon the ticks Dermacentor marginatus Sulz. Med.paraz.i paraz.bol. no.3:239-242 My-Je 153.

(MLRA 6:8)

1. Kafedra biologii Voronezhskogo meditsinskogo instituta.
(DDT (Insecticide)) (Ticks)

(CA 47 no.19:10169 '53)

Exoridisces of animals and also transmitters and carriers of tularemia, tick spotted fever, spring-summer enceptialitis, and apring-autumn fever. During 1946-51, USSR workers did was a considerable amount of work on the extermination of these ticks with DDT and GKhTsG. In the present instance, results are reported on the use of DDT solns in solar oil and of a 10% aqueous xalutim suspension of GKhTsG dust for the extermination of D, marginatus Sulz ticks at kolkhozes where they infest horses, cattle and other animals.

POKROVSKAYA, YE. I.

May/Jun 53

USSR/Medicine - Epidemiology

"Ecology of the Tick Dermacentor marginatus Sulz in Voronezh Oblast," E. I. Pokrovskaya,

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

Dept. of Biology, Voronezh State Med Inst

Zool Zhur, Vol 32, No 3, pp 435-440

Ticks of the genus Dermacentor are not only parasites of cattle but they also attach humans. These ticks cause tularemia, tick-borne spring-summer encephalitis, typhus, and spring-autumn fever. They are important as carriers of the causative agents of Haemosporidia infections in cattle (piroplasmosis, nuttaliosis, etc.). The apparent seasonal activity of the tick Dermacentor marginatus and its capacity to go without food for a long period of time is important for control measures. These ticks are predominant in the steppe and the forest-steppe areas of Voronezh Oblast. The maximum density of the occurrence of this tick is reached toward the end of April and in early May.

265 TL6

Name: POKROVSKAYA, Yekaterina Ivanovna

Information upon the ecology of the Dissertation:

tick Dermacentor marginatus suiz, and also upon its pathogenesis and the

struggle against it, according to data of a study in the south-east Chernozem

Center

Degree: Doc Biol Sci

Affiliation: Inot indicated

11. Mar 57 Council of Moscow Order of Defense Date, Place:

Lenin and Order of Labor Red Banner

State U imeni Lomonosov

Certification Date: 16 Nov 57

Source: BMVO 24/57

	BEST CONTROL OF THE STATE OF TH		-	-	
POKROVSKAYA, Je. I	PRIKHOT'KO, A.F. 24(7) b.3 PHASE I BOOK EXPLOITATION SOVA 365		÷ T		
3	L'vov. Universytet		į		
Management Andrews	Materialy I Yassoyuznogo soveshchaniya po spektroskopii. t Molekulyarnaya spektroskrpiya (Papers of the 10th All-bu Conference on Spectroscopy. Vol. 1: Molecular Spectrosc [L'vov] Izd-vo L'vovakogo univ-ta, 1957. 499 p. 4,000 o printed. (Series: Its: Pizychnyy zbirnyk, vyp. 3/8/)	iion iopy)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
A A A A A A A A A A A A A A A A A A A	Additional Sponsoring Agency: Akademiya nauk SSSR. Komiss spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, T. Editorial Board: Laviaberg, G.S., Academician (Resp. Ed. Neporent, B.S., Dootor of Physical and Mathematical Scie Fabelinskiy, I.L., Dootor of Physical and Mathematical Scie Fabelinskiy, V.A., Dootor of Physical and Mathematical Sciences, Cardidate of Technical Sciences, Raysi Candidate of Physical and Mathematical Sciences, Rimove Candidate of Physical and Mathematical Sciences, Millyar Candidate of Physical and Mathematical Sciences, and Gla. Ye., Candidate of Physical and Mathematical Sciences, Sciences, A. Ye., Candidate of Physical and Mathematical Sciences, Candidate of Physical and Mathematical Sciences.	C.V.; , Doceased), noes, Sciences, Lences, ciy, S.M., skiy, L.K., nchuk, V.S., auberman,	more en la la calacidad designada		6
	Card 1/30		4		
	• •		region of the second		
	Dianor-Klokov, V.I., and A.D. Stakhovskiy. Registering Device for Infrared Spectrometers	401	•		
	Markov, M.N. The Spectral Sensitivity of a Coated Low-inertia Bolometer	403			
,	Mal'nev, A.F. Nickel Bolometers	405	1		
	Elimenko, P.L., and O.V. Fialkovskaya. Infrared Radiation Folarizers	407	**************************************		
	Palitsyna, I.A. Analyzer Based on the SP-4 Spectro- meter	409	ž s		
	Mikitin, V.N., B.Z. Volchek, and N.V. Vol'kenahteya. Using Infrared Polarized Light in Determining the Grientation of Polymers	411	€ 4 €		
	Pokrovskays, Ye. I. Variations in the Infrared Speatrs of Crystalline Folymers During Melting	416			
	(124 oc/				
	1. 原位: 2. 原位: 2	1 . 11			
			sickum en word	Secretary of	

i				
	COUPTRY CATEGORY	: USSR : Plant Physiology. Respiration and Metabolism. I		
	ABS. JOUR.	: RZhBiol., No. 3 1959, No. 10592		
	AUTHOR INST. TITLE	Pokrovskays, Va. I. Academy of Sciences, USSR Some Data on the Oxidation and Reducing Processes in Halophytes.		
	ongo. PUB.	: V sb.: Pamyati akad. N. A. Maksimova, M., AN SSSR, 1957, 268-274		
	ANSTRACT	The rate of the respiration and activity of phenolages and catalases in 11 species of halophytes was studied at and catalases in 11 species of halophytes was studied at Valuyevskeya Experiment and Amelioration Station (Stalin-Valuyevskeya Experiment and Amelioration Station and activerad oblast!). A very low rate of respiration and active ity of the peroxidase, catalase and phenoloxidase was found in suhalophytes (or salt accumulating halophytes). Crinohalophytes (salt secreting halophytes) were churacterized by a rather high rate of respiration and activity of oxidizing ferments, and in contrast to suhalophytes		
	CARD:1/3	<b>4</b>		

CARD: 2/3

G

USSR / Zooparasitology: Mite and Insect Vectors of Disease Agents: Acarids.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19718

Author : Pokrovskaya, Ye. I.; Kuznetsov, P. K. Inst : Voronezh Medical Institute

Title : Biotopes and Seasonal Behavior of Ixodidae (Ixodes and Dermacentor) Under Natural

Conditions in Voronezhskaya Oblast'

Orig Pub : Tr. Voronezhsk. med. in-ta, 1957, 28, 135-137

Abstract: D. marginatus is native to pastures which occupy waste lands and ravines. Spring activity lasts from April until June; in the summer months this species is absent; full activity lasts from August until

October, when this species is met with again but in lesser numbers. I. ricinus is native

Card 1/2

to insular forests and scrubwood territories.

It is active from April until the end of
the warm season, the peak numbers arriving

APPROVED FOR RELEASE: 106/15/2000 the CPA-REPSE 100973R001341630005-8"
H. A. Filippova

Card 2/2

USSR / Zooparasitology. Acarina and Insects. Vectors G of Pathogenic Agents. Acarina.

Abs Jour: Ref Zhur-Biol., No 6, 1959, 24278.

Author

Inst

: Pokrovskaya, Ye. I. : Voronezh Ledical Institute. : On the Problem of Summer Diapause of Sexually Title

Mature Ticks Dermacentor Marginatus Sulz. and on the Duration of Their Starvation Period Under Conditions of the Southeast of the Chernozem Center.

Orig Pub: Tr. Voronezhsk. med. in-ta, 1957, 28, 139-140.

Abstract: With the beginning of summer heat, sexually mat-

ure ticks fall into a passive state. In experiments conducted on pastures, they lived for two years without food; about 89% of the ticks sur-

vived.

Card 1/1

USSR/Zooparasitology. Ticks and Insects - Vectors of G Causal Organisms. Ticks.

Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 104118

Author : Pokrovskaya, Ye. I.

: Voronezh Medical Institute Inst

: Pathogenic Effect of Bites of Sexually-Mature Title

Ticks of the Species Dermacentor marginatus

Sulz. on the Host.

Orig Pub: Tr. Voronezhsk. med. in-ta, 1957, 28, 141-149

Abstract: No abstract

Card 1/1

Sulz. on the host	of the bite of the mature tick Der [with summary in English]. Zool. z	(MIRA 10:6)	
1. Kafedra biologi	i Voroneshakogo gosudarstvennogo a	nogo meditsinskogo in-	
stituta.	(Ticks)		

POKROVSKAYA, E. I., RYABYKH, L. V. and BEZUKLADNAYA, G. S.

"The Repellence of 1-ACYL Tetrahydroquinoline (RP-99) and Mixtures Based on it (RP-201, RP-209, and RP-220) In Respect to Mosquitos Under the Conditions Prevailing in the Forest Landforms of Voronezh Oblast'."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Voronezh Medical Institute

POKROVSKAYA, Ye, I.

"The Metabolism of Pl ants in Salty oil." Cand Biol Sci, Inst of of Plant Physiology imeni K. A. Timiryazev, Acad Sci USSR. (VM, 13 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

POKROVSKAYA, Ye.I.

Salt tolerance and some aspects of metabolism in glycophytes
[with summary in Inglish]. Fiziol. rast. 5 no.3:264-271 '58.
(MIRA 11:6)

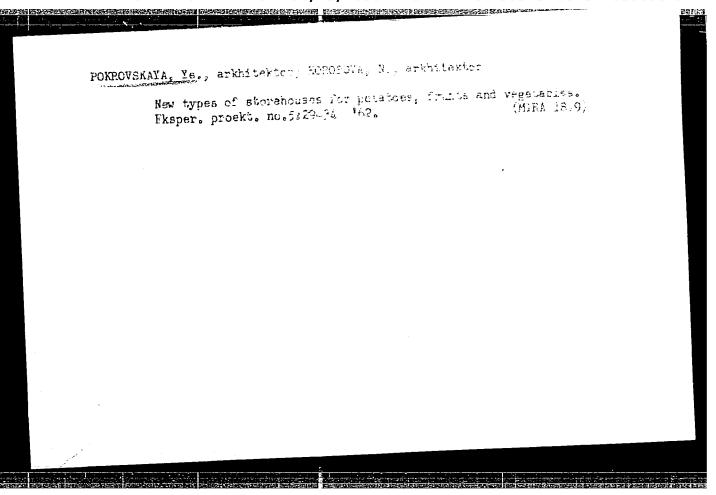
1. Institut fiziologii rasteniy im. E.A. Timiryazeva Akademii
nauk SSSR, Moskva.

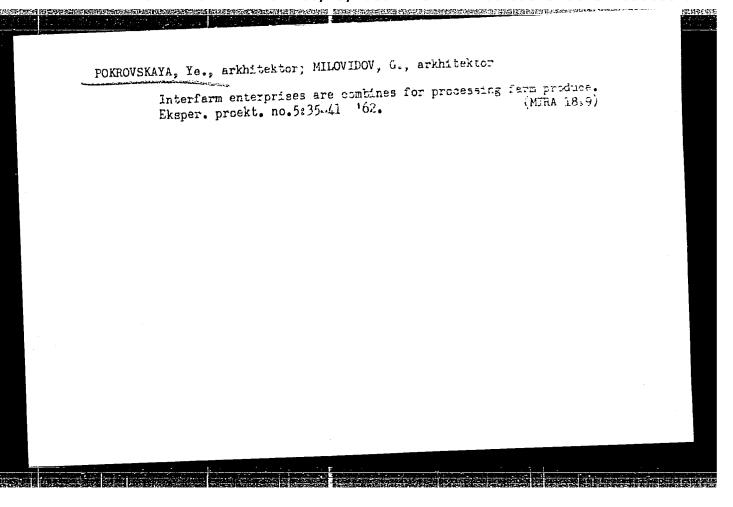
(Flants, Infect of salts on)

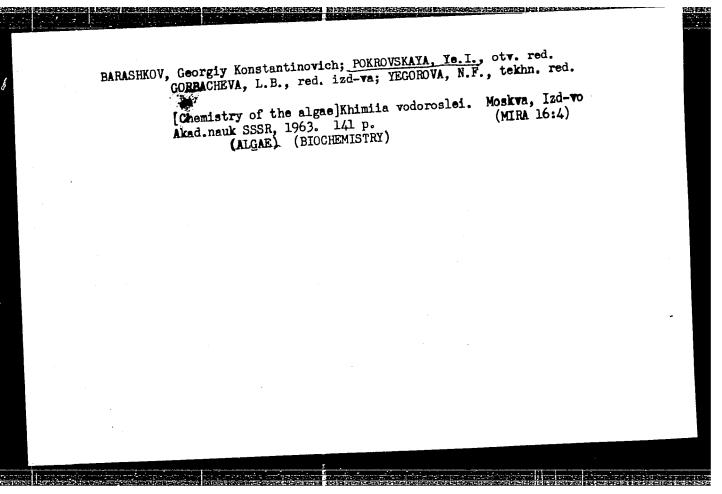
POKROVSKAYA, Ye.I.; TERESHCHENKO, A.P.; CHIZHKOV, S.V.

Chrematographic separation of cations of the urine. Vop. med.
khim. 11 no.1:89-94 Ja-F '65.

(NIRA 18:10)







POKROVSKAYA, Ye. I.; RYABYKH, L. V.; BATAYEV, P. S.

Preliminary field trials of new preparations of mosquito repellents under natural conditions of Voronezh Province. Med. paraz. i paraz. bol. no.6:723-726 '61.

1. Iz kafedry biologii (zav. - prof. Ye. I. Pokrovskaya) Voronezhskogo meditsinskogo instituta i Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye. I Martsinovskogo (dir. - prof. P. G. Sergiyev)

(MOSQUITOES) (INSECT BAITS AND REPELLENTS)

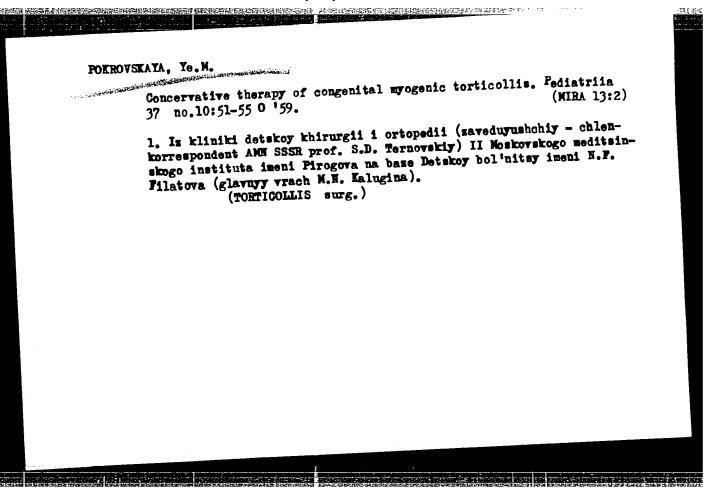
CIA-RDP86-00513R001341630005-8" APPROVED FOR RELEASE: 06/15/2000

POKROVSKAYA, Ye. I.; BATAYEV, P. S.; RYABYKH, L. V.

Testing new preparations repelling mosquitoes under natural conditions in Voronezh Province. Nauch. dokl. vys. shkoly; biol. nauki no.3:23-26 62. (MIRA 15:7)

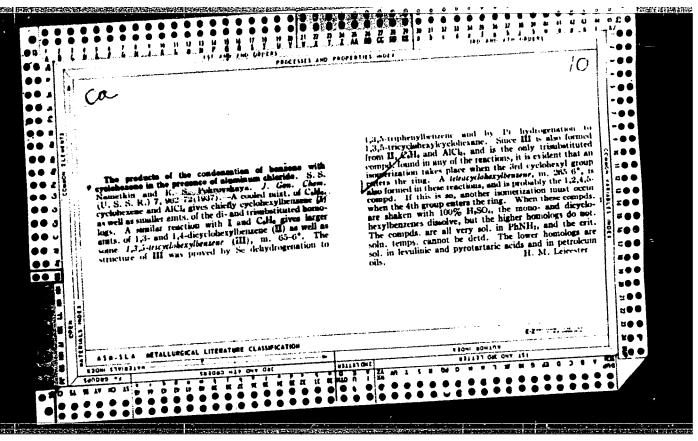
1. Rekomendovana kafedroy biologii Voronezhskogo meditsinskogo instituta i Institutom meditsinskoy parazitologii i tropicheskoy meditsiny im. Ye. I. Martsinovskogo.

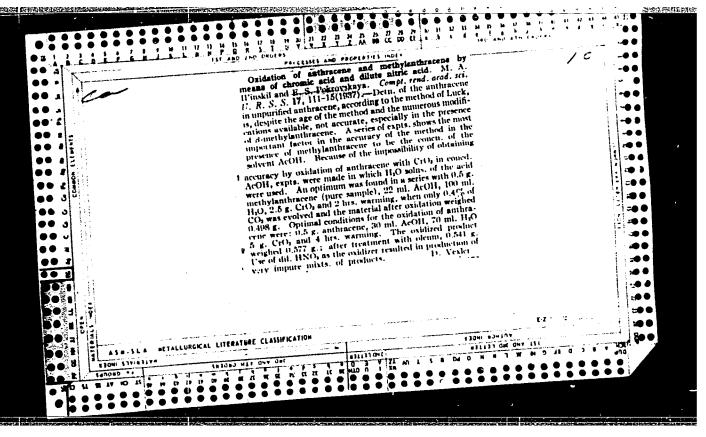
(VORONEZH PROVINCE\_MOSQUITOES\_EXTERMINATION)
(INSECT BAITS AND REPELLENTS)

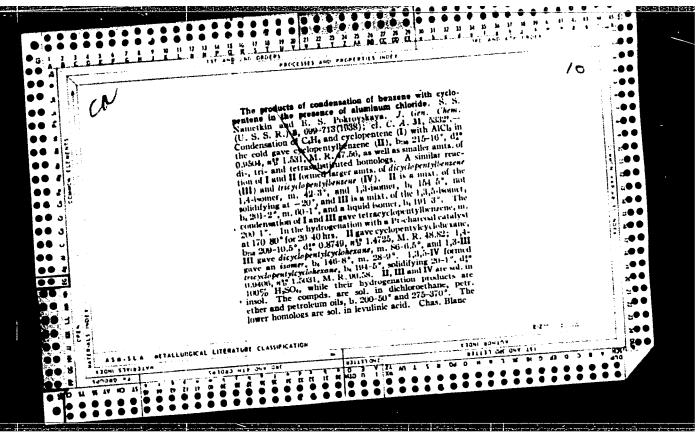


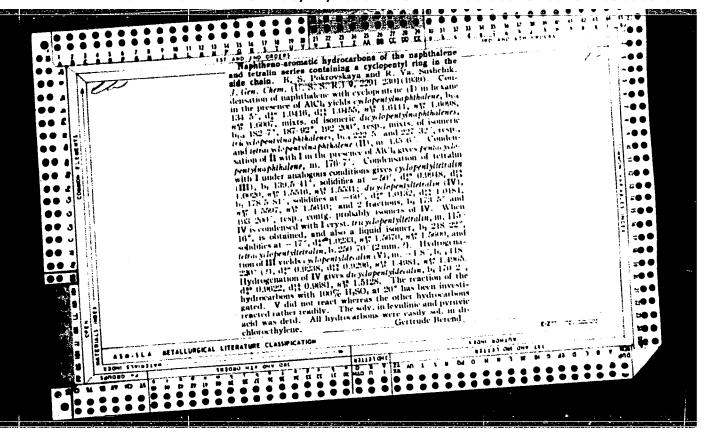
POKROVSKAYA, Ye. S. and ROBINZON, Ye. A.

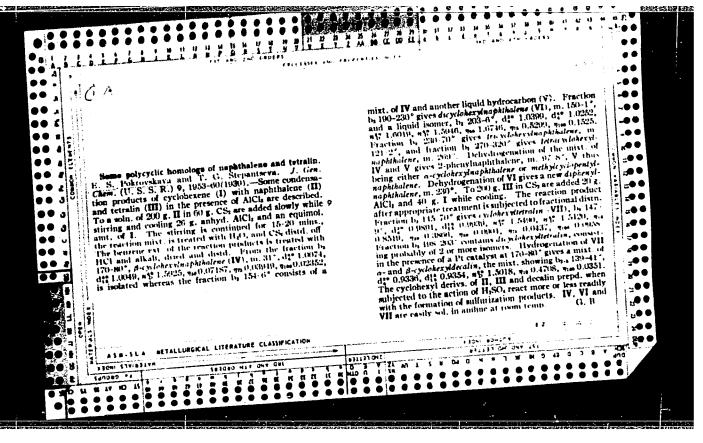
"Determination of Contents of Groups in Gasoline," Acad. Sci USSR, 1936







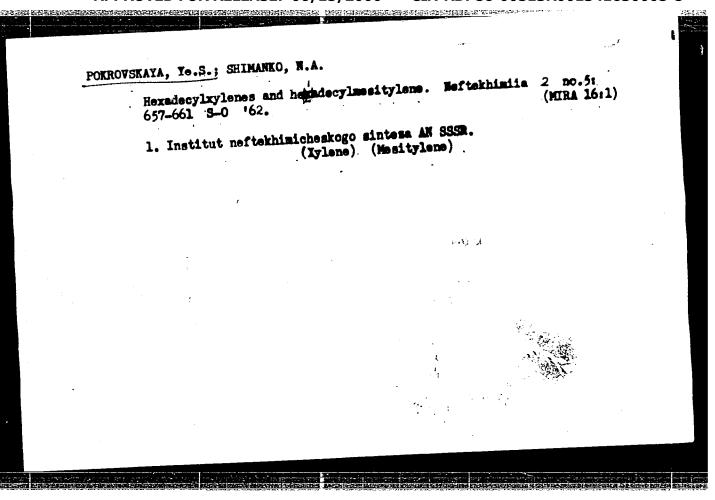




SHIMANKO, N.A.; POKROVSKAYA, Ye.S.; SIDORENKO, V.I.

Synthesis and ultraviolet absorption spectra of decylxylenes, decylmesitylene, and cyclopentyldecyl-p-xylene. Neftekhimia l no.3:297-304 My-Je '61. (MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.



KUSAKOV, M.M.; POKROVSKAYA, Ye.S.; SHISHKINA, M.V.; SHIMANKO, N.A.;

PROKOF'YEVA, Ye.A.

Study of the structure of monocyclic hydrocarbons based on absorption

spectra. Izv. AN SSSR.Ser.fiz. 26 no.10:1257-1260 0 162. (MIRA 15:10)

1. Institut neftkhimicheskogo sinteza AN SSSR. (Hydrocarbons—Spectra)

- 1. POKROVSKAYA, Ye S., STEPANTSEVA, T. G.
- 2. USSR (600)

"On Certain Polycyclic Homologs of Naphthalene and Tetralene", Zhur. Obshch. Khim., 9, No. 21, 1939. Inst. of Mineral Fuels, Acad. of Sci. USSR. Received 8 June 1939.

9. Report U-1626, 11 Jan 1952.

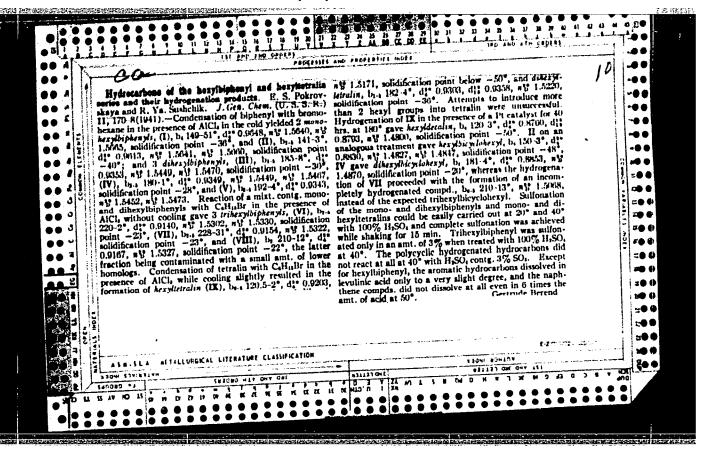
1. FOUROVSKAYA, Ye. S., SUSHGUTK, R. Ya.

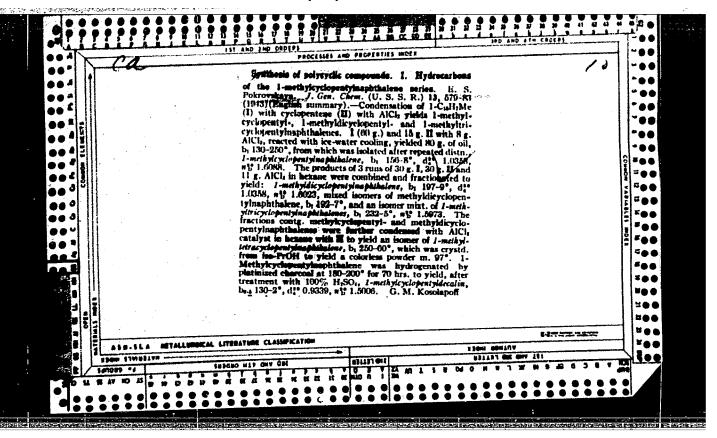
2. USSR (600)

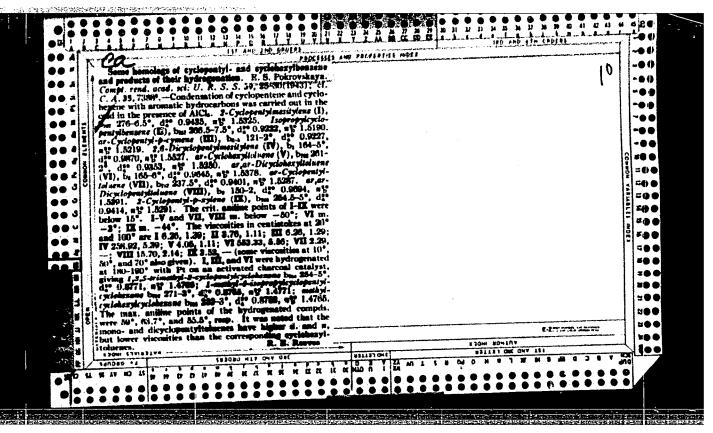
"Naphthene-Aromatic Hydorcarbons of the Naphthaline and Tetraline Series Having a Cyclopantyl Ring in a Side-Chain", Tetraline Series Having a Cyclopantyl Ring in a Side-Chain", Thur. Obshch. Khim., 9, No. 24, 1936.

Inst. of Mineral Fuels, Acad. of Sci. USSR. Received 16 July 1939

9. Report U-1626, 11 Jan 1952.







POKROVSKAYA, Ye. S.

Mbr., Petroleum Inst., Dept. Tech. Sci., Acad. Sci., -1943-c49-.

Cand. Chemical Sci. Mbr., Inst. Combustible Minerals, Dept.

Tech. Sci., Acad. Sci., -1943-48-. "Some Homologues of Cchlopentyl-and Cyclohexyl-Benzene and Products of Their Hydrogenation,"

Dok. AN. 39, No. 1, 1943; "Synthesis of Polycyclic Hydrocarbons:

I. Hydrocarbons of the Series of Methylcyclopentyl-Naphthalene,"

Zhur. Obshch. Khim., 13, Nos. 7-8, 1943; "Question of the

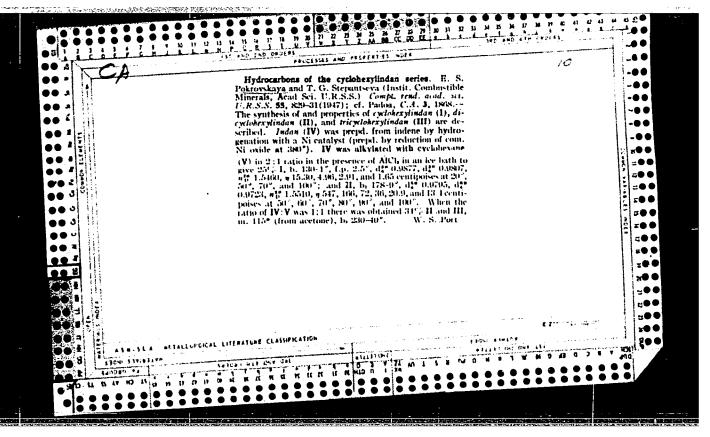
Synthesis and the Derivatives of Cyclopentyl- and Cyclohexyl
Replaced Aromatic Hydrocarbons," ibid., 61, No. 6, 1948; "Hydrocarbons of the Naphthalene Series in Surakhany Petroleum," ibid., 67,

No. 5, 1949. S. S. Nametkin Prize, 1951, oil refining research.

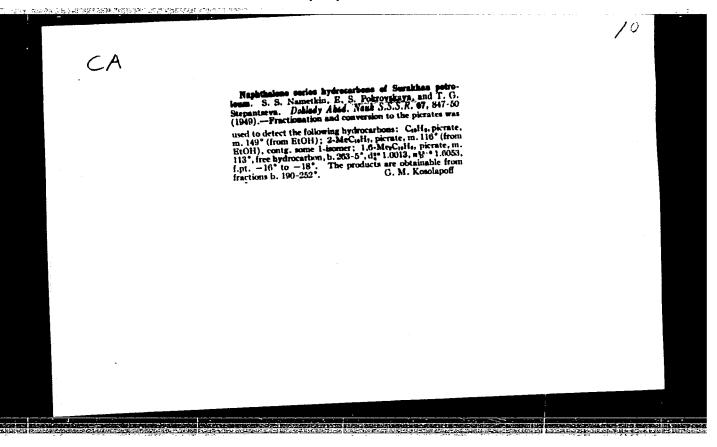
POKROMSHAJA, E. S.

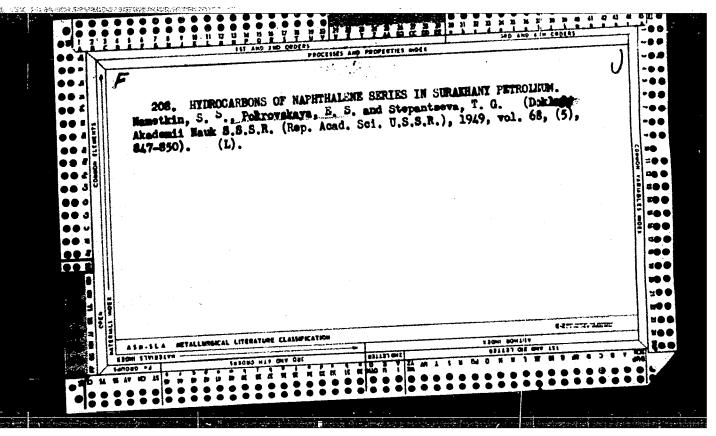
"The synthesis of polycyclic hydrocarbons. II. Hydrocarbons of a-methyl-cyclohemyl-naphtalene series" by E. S. Pokrowskaja (p. 438)

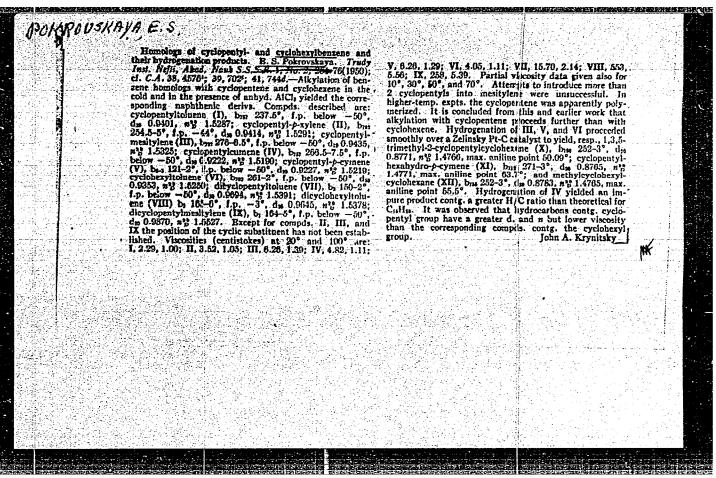
SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1946, Volume 16, No.3

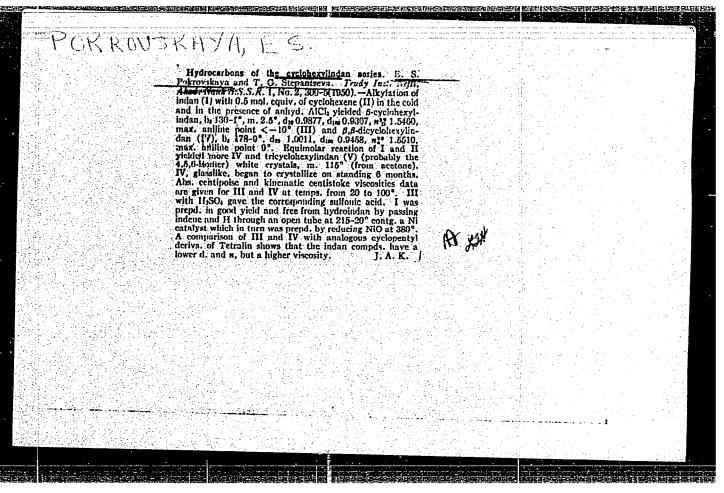


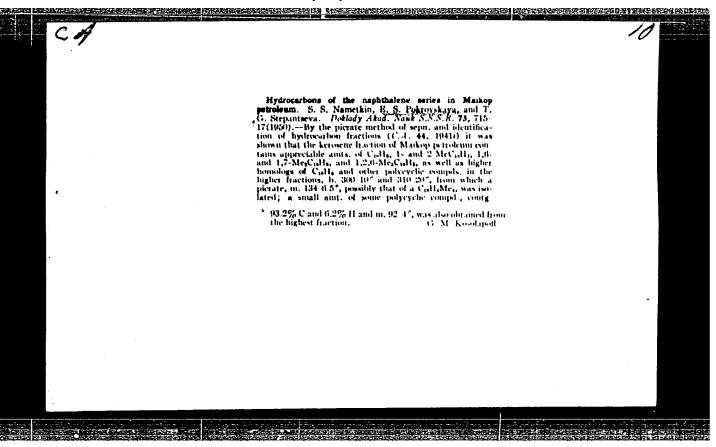
POKROVSKAYA, YE.	S. FDB	USSR/Chemistry - Cycloalkylation, of Aug 48 Arcmatic Hydrocarbons (Contd.)  (insoluble in alcohol and ether) and, with soda, into their sodium salts. Submitted 2 Jul 48.	s research on ntylbenzene, or 100 wolume of 100 acids were coating their their	"The Problem Concorning the Synthesis and Deriva- tives of Cyclopentyl- and Cyclohexyl-Substitution Derivatives," Acad S. S. Nametkin Ye. S. Pokrovskaya 2 pp	USSR/Chemistry - Cycloalkylation of Aug 48 Aromatic Hydrocarbons Chemistry - Synthesis



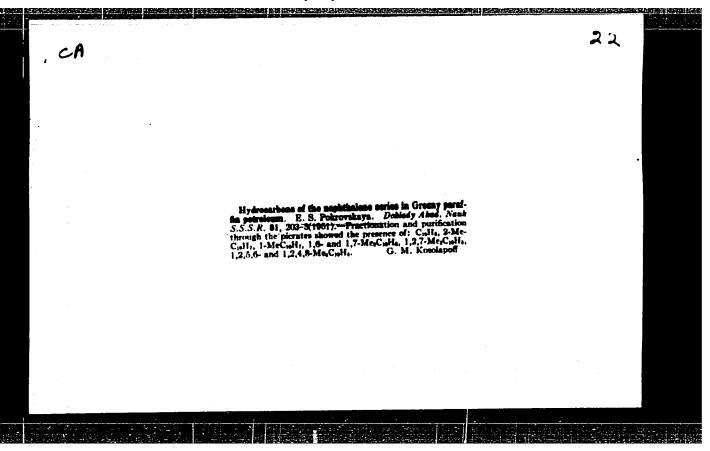




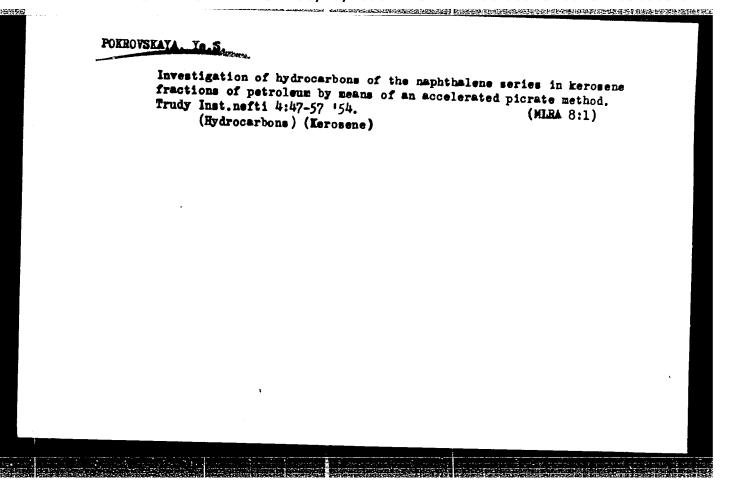




Akad. Hauk  Abetr.,  Close or see and
no C <sub>10</sub> H <sub>8</sub> or
no C <sub>10</sub> H <sub>8</sub> or
ents of poss-
ints of poss-
ondensed ar-
y and b <sub>2</sub> ≈ 00
fractions = = = = = = = = = = = = = = = = = = =
C.A. HOO
<b>200</b>
E-2-11-12-13-13-13-13-13-13-13-13-13-13-13-13-13-
6-2
E-2
Do and p <sup>5</sup>



POKROVSKAYA, YE. S.	PA 243T5	
	_ 1	
	USSR/Chemistry - Petroleum "The Content of Hydrocarbons of the Maphthale Series in Maykop, Tuymazy, and Dossor Crudes, Acad S. S. Nametkin (deceased), Ye. S. Pokrov T. G. Stepantseva "Trudy Inst Neftl" Vol 2, pp 10-16  "The kerosene fraction from Maykop crude (tert deposits) contains considerable quantities of thalene, 3-methylnaphthalene, 1,6 and 1,7-dim naphthalene, trimethylnaphthalenes, higher h of naphthalene, and other polycyclic hydrocar a more complex structure. The kerosene fract logs. These homologs are precipitated as pic together with polycyclic sulfur compds when the acid method of sep is used. The kerosene fract Dossor crude (Jurassic deposits, Emba region) contain noticeable quantities of naphthalene homologs.	
	ons of the leased), Ye. 9 and Dosson y, and Dosson end the fillene, 1,6 and aphthalenes, for polycyclic polycyclic.  The keros of the lease of t	
243175	"The Content of Hydrocarbons of the Naphthalene Series in Maykop, Thymazy, and Dossor Crudes," Acad S. S. Nametkin (deceased), Ye. S. Pokrovskaya, T. G. Stepantseva  "Trudy Inst Nefti" Vol 2, pp 10-16  "Trudy Inst Nefti" Vol 2, pp 10-16  "The kerosene fraction from Maykop crude (tertiary deposits) contains considerable quantities of naphthalene, 3-methylnaphthalene, 1,6 and 1,7-dimethylnaphthalenes, higher homologs of naphthalene, and other polycylic hydrocarbons of a more complex structure. The kerosene fraction of a more complex structure. The kerosene fraction of a more complex structure are precipitated as picrates together with polycyclic sulfur compds when the picrates together with polycyclic sulfur compds when the picrates acid method of sep is used. The kerosene fraction of Dossor crude (Jurassic deposits, Emba region) does not contain noticeable quantities of naphthalene or its homologs.	
		· ·



i Par Daleria a a		
POKROVSKAYA, Ye.s.		
	PRIKHOT 'KO, A.F.	
	Divov. Universystet 1 BOOK EXPLOITATION SOV/136	te T
	Material	
t comment	Materialy X Vsescyuznogo soveshchaniya po spektroskopii. Molekulyarnaya spektroskopiya (Papers of the 10th All [L'vov] Izd-vo L'vovskogo unti-ti Molecular Spectroscopy.	1:
	printed. (Series: TVOVSKOGO univ-ta. 1057	OBCODY)
	spektroskopii. Ed. Akademiya nauk mass	V) sopies
dia.	Abrikant V.A. Doctor of Physical and Mathematical 3	olenges
	Candidate of Physical Mathematical Sciences, Ray	akiy, s.w
1.0	Candidate of Physical and Mathematical Sciences, Ray Candidate of Physical and Mathematical Sciences, Riling Candidate of Physical and Mathematical Sciences, Miling A. Yes, Candidate of Physical and Mathematical Sciences, and Card 1/30	Wakiy, L.K., anchuk, V.S., lauberman
	30 Solence	•
CLUMENT	Gordadze, G.S. Anharmonicity of the Potential Curve of a Hydrogen Molecule	
	Study of the Structural group Control ava. et al.	317
	in the Near Ultraviolet Region the Absorption Spectre	
	Iogansen, A.V. Structural-group Analysis of Saturated Petroleum Products by Means of Infrared Absorption Spectra. Determination of Cif-groups, Aliphatic CH2-groups and Long Chains, (CH2)	321
	Study of the Composition of Rennine-ligroin Processor	327
	Study of the Absorption Spectra of Nome Fetroleim Arcastic Hydrocarbons in the Manual Petroleim	329
	Card 21/30	334
	(1) (1) (2) (2) (3) (4) (5) (5) (4) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	
Alta bibari Tambibi bir di diwa Tam	han i gradi katansia kupengarang pilebah kabalah atauma	erd standing for the same of t

RUSAKOV, M.M.; NIFORTOVA, S.S.; POKROVSKAYA Ye.S.; ROZENBERG, L.M.;

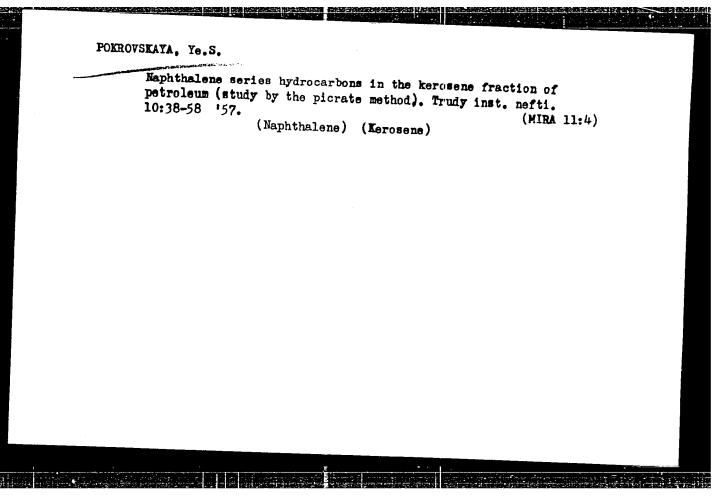
TOPCHITEV, A.V.; SHISHKIMA, M.V.

Absorption abstructure study in the near ultraviolet region of the structure and group composition of the kerosene fraction. Fix.

(MIRA 11:8)

1. Institut nefti AF SSSE.

(Kerosene—Spectra)



	P	οK	Ro	U:	SKAYA,	1/2,5.										
2771/	hadentyn nank 8888, Institut herit	4. 12 (Entainations of the Petrolem Institute, USSI. Academy of Bose, Fol. 12) Moscow, 134-ro Af EUSH, 1988. 359 P. Errsts #12p brinds. 1,700 copies printed.	Mai 6, R. Sergiyanio, Professor; Ed. of Publishing Homes K. G. Miyessowy; Yeah, Ed.; V. V. Golnbern.	PURCORS: The book is intended for setentists, engineers, and technicisms	Officer This sollection of articles describes the results of windles as information of the honology of periods as the conducted in the light declaration of the Petrolem Institute, Austral of Statemes, 1938, in set \$50 med 1979, A new section "Petrolem and Traineds and Petrolem in the been included in the collection of articles, A list of investigation upolithed to the section of articles, A list will large and the last of the collection of articles, A list of the last and the last of the collection of articles in 1995 demand as last of the following presented in 1995 and 1997 at the last of the last of the section in the last of the l	of Reducestrons.  10. De. N. M. Munder, Ma. D. Patronsky, and M. A. Milando.  13. Derivative to the Absorption Spectra of Same Contractive, and M. A. Milando.  15. Derivative to the New Unterfole Rese Contractive, and Contractive, and M. A. Milando.	ps description of R. J. R. Ta. Sergentic, and R. E. Intrice. Investigation of the Composition and Properties of High-Molecular Velgat Spirocarbons and	68 Surgivento, 6, N., B. E. Davydov, A. D. Lithanorich, and E. A. Elekhray. Part 14.			Sargiyento, S. R., Je. L. Lebedar., Chemical Nature of Saturated High.  Religious Valgat Divisourbons of Remainten (Davozian) Patrolome. Tail II.  Sargiyento, S. R., and N. V. Labedar., Chemical Saturated Trail IV.  Rep. Molecular Valgat Divisourbons of Remainten (Trail of The Communication)		Designation is R., I. A. Monkins, and Ye. Y. Monding. Investigation for the Chamber of High-bole cultural Velight Condensed Reputed Angular Velight Condensed Reputed Managed of Remarking Performer by the Castagraph Reputed in the Freeness of Rapy Hi. Part of the Chamber of Rapy Hi. Part of the Chamber of Rapy Hi. Part of the Chamber of Part of the Chamber of Rapy Hi. Part of the Chamber of the Chamber of Part of the Chamber o	137 Sergivency B. R., To. Y. Nordries, and T. A. Konbins. Fringensition Efficients with the Presence of a M22 - M18 - A259 Constition Engine Description From the Presence of a M22 - M18 - A259 Constrain Date M14.	Dergivence, B. R., I. A. Wonkins, and Ye. V. Nordrine. Zydrogramicon of farm Income of farm of farming the farming of farming farming of farming f	Bergirands, 8, N., V. I. Norchegias, P. N. Galich, L. I. Perzar, S. E. Bergirands, and N. I. Krawchshio, Erfect of the Nature of the Far Marketial Article & Composition and Properties of Oxidited Ritmens.
(4)11 ((2)5 )	Attached	Fredy, 6., 12 Belgeon Language	Red for the state of the state	Andreas.	OOTTUME:  Moorrand  Moorra	ef Epdromarbe ed. 'pern, d. Brady of the Brady of the	Berghand a the Composition fars of Opensi	i Bergiyenko, 8. Some Physicoch Fart 18.	Sergiyanko, S. Far Fraction of	Sergiyenko, S. of High-Molecul Fart 16	Sergiyanko, g., Bolecular Veter Sergiyanko, G., Man-Solatoriar S., Man-Solatoriar S.,	Bergianno, 8. R Manhabacalar V Manhabacalar V Caronian Petro	Sergiyenko, 8. R of the Chemical : Armania Compount Mathol in the Pre	Sergiyanko, S. R. of Micholandar Jackina Julian Julian Julian Conditions. Pape	Dergiyanko, 6, B. Of Tara Leolated Bergiyanko, 8, R. Berydor, and M. T. Ber the Composition	Bergirano, S. N., Derrich, and H. T. and Ordanton Time Article 24

5.3100

67218

SOV/58-59-7-16560

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 7, p 271 (USSR)

AUTHORS:

Gal perin, G.D., Kusakov, M.M., Pokrovskaya, Ye.S., Shimanko, N.A.

TITLE:

Study of the Absorption Spectra of Some Cyclohexyl and Cyclopentyl Derivatives of Benzene in the Near Ultraviolet Region

PERIODICAL:

Tr. In-ta nefti. AS USSR, 1958, Vol 12, pp 38 - 64

ABSTRACT:

The authors studied the absorption spectra of a number of cyclohexyl and cyclopentyl derivatives of benzene and its methylated homologs in a solution of isooctane in the 2,200 to 2,900 Å region. They demonstrated the possibility of determining the position of alycyclic substitutes in the benzene ring. In some cases it is possible to identify isomers of identical structure with cyclohexyl, cyclopentyl, methyl, or both methyl and cyclic substitutes. The advantages of the described method of studying structure, as compared with the chemical method, are its simplicity, the possibility of carrying out measurements in the liquid phase and at room temperature, and the small size of the sample required for analysis

Card 1/1

L. Dmitrenko

AUTHORS:

20-119-6-31/56

Topchiyev, A. V., Member, Academy of Sciences, USSE, Pokrovskaya, Ye. S.;

Stepantseva, T. G.

TITLE:

The Synthesis of Alkylindanes (Sintez alkilindanoy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 119, Nr 6, pr.1164-1166

ABSTRACT:

In order to begin the complicated investigation of the composition of the petroleum- and mineral cil fraction with regard to hydrocarbons, first of all, hydrocarbons in a pure state are to be produced and universally studied, which correspond to the mentioned fractions according to their boiling. Among the pessibly occurring aromatic hydrocarbons the indanes are entirely insufficiently investigated. Then follow some examples of the hitherto known data on this subject (Ref 1). In order to complete these informations the authors tried the synthesis of the indanes for the purpose of obtaining preparations for spectral analysis. Those were, above all, the substances mentioned in the title with aliphatic substituents in the aromatic ring. A survey of publications

Card 1/3

5(3)

AUTHORS:

Pokrovskaya, Ye. S., Shimanko, N. A.

SOV/20-123-1-29/56

TITLE:

On the Synthesis of Cyclopentyl- and Cyclohexyl Derivatives of Mesitylene (K voprosu o sinteze tsiklopentil- i tsiklogeksilzameshchennykh mezitilenov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1,

PP 109 - 112 (USSR)

ABSTRACT:

The introduction of the cyclopentyl and cyclohexyl group in the aromatic ring is mostly proceeding smoothly and with good yield by the interaction of cyclopentene and cyclohexene with aromatic hydrocarbons in the presence of anhydrous aluminum chloride (Ref 1). Aluminum

chloride, however, in the case of some alkyl benzenes effects

the isomerization of the initial aromatic hydrocarbon. In order to obtain the cyclopentyl mesitylene without isomerization of the initial product the authors have alkylated the mesitylene with cyclopentene in the presence

Card 1/3

of concentrated sulfuric acid. The reaction mixture was cooled down. The compound isolated from it had a

On the Synthesis of Cyclopentyl- and Cyclohexyl Derivatives SOV/20-123-1-29/56 of Mesitylene

melting point of 100.5 - 101.5°(3 mm) and  $266-267^{\circ}$ (755 mm). Regarding its properties the obtained hydrocarbon differs from the trimethyl cyclopentyl benzene with a durol-type structure (obtained without sulfuric acid, Fig 1, I). The same applies to the absorption spectrum (Fig 1, IV). Its spectrum is similar to that of isodurol (Fig 2, I). This means that the isomerization does not occur during the condensation with sulfuric acid and that the hydrocarbon synthesized is a cyclopenty - mesitylene (1,3,5-trimethyl-4-cyclopentyl benzene). In order to obtain the cyclohexyl mesitylene, mesitylene was alkylated with cyclohexene in the presence of anhydrous aluminum chloride under cooling with ice. The absorption spectrum of the reaction product was similar to that of durol. Even in spite of the ice-cooling the isomerization takes place. Synthesized was the 1,2,4-trimethy1-5cyclohexyl benzene. With sulfuric acid and ice-cooling the 1,3,5-trimethyl-2-cyclohexyl benzene was formed. It differed from the cyclohexyl pseudo-cumol previously described. The melting points of the mentioned compounds

Card 2/3

POKROUSKAYN, YES

PHASE I BOOK EXPLOITATION

SOV/4606

Akademiya nauk SSSR. Institut nefti

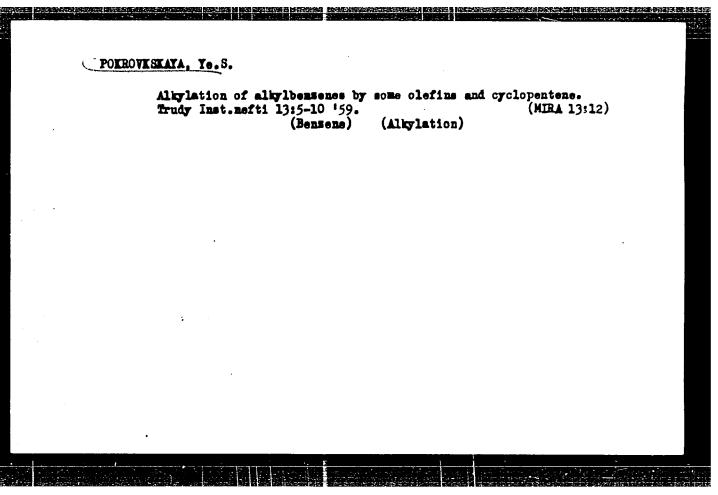
Khimiya nefti (Petroleum Chemistry) Moscow, 1959. 311 p. (Its: Trudy, tom 13) Errata slip inserted. 2,000 copies printed.

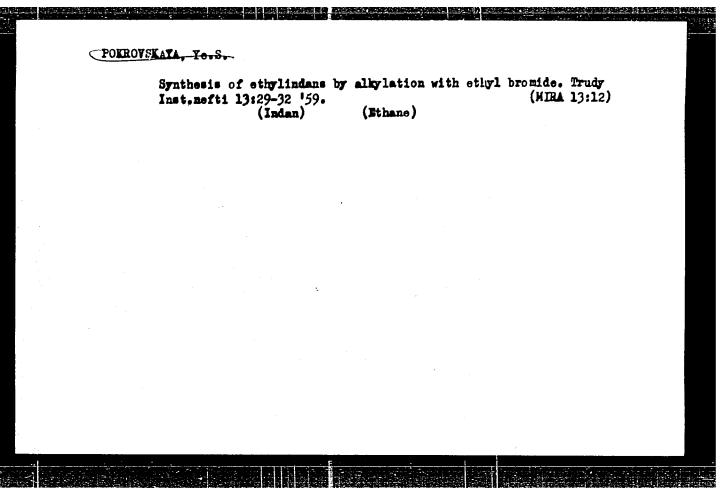
Resp. Ed.: G.D. Gal'pern, Doctor of Chemical Sciences; Ed. of Publishing House: L.S. Povarov; Tech. Ed.: V.V. Volkova.

PURPOSE: This book is intended for organic and industrial chemists and specialists in petroleum technology.

COVERAGE: This issue of the Transactions of the Petroleum Institute of the Academy of Sciences USSR contains twenty-five articles which review original laboratory experiments conducted by personnel of the Otdel khimii i tekhnologii nefti (Department of Chemistry and Petroleum Technology). Individual papers deal with studies of the composition and properties of petroleum and petroleum products, methods of their separation and synthesis, and physicochemical characteristics of standard petroleum compounds. The use of gaseous solutions to distinguish heavy raw-petroleum fractions from ozocerites, thermal processes of contact and catalytic refining and synthesizing, and theoretical problems

Card 1/6





5(3) Pokrovskaya, Ye. S., Shishkina, M. V. SOV/20-125-6-26/61 AUTHORS: TITLE: On Some Alkyl-cyclopentyl-benzenes (O nekotorykh alkiltsiklopentilbenzolakh) Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1269-1271 PERIODICAL: (USSR) ABSTRACT: It was proved (Refs 1-3) that complex polyalkyl-benzenes which contain besides alkyl radicals also cycloalkyl radicals can be produced by the alkylation of methyl- and polymethyl benzenes with cyclopentene or cyclohexene in the presence of anhydrous aluminum chloride. The synthesis of dimethyl-isopropyl-benzene is described in the present paper. The authors proceeded from p-xylene and propylene in the presence of the same catalyst; furthermore, the obtained trialkyl-benzene-isopropyl-p-xylene is alkylated by cyclopentene. The position of the side chains was determined according to the absorption spectra in the ultraviolet range as far as an isomerization is possible in the presence of aluminum chloride. The constants of isopropyl-pxylene agree with those listed in reference 4. A reaction prescription and the properties of p-xylene as initial substance Card 1/4 are given. A substance with the boiling point of 750 (at 11 torr)

On Some Alkyl-cyclopentyl-benzenes

SOV/20-125-6-26/61

was obtained by fractional distillation at atmospheric pressure. It does not freeze at  $-70^{\circ}$ . The refractive index and the density correspond completely to those of 1,4-dimethyl-2isopropyl-benzene (Ref 4). Figure 1 shows the spectrum of isopropyl-p-xylene (Figs 1: I) with maxima at 2755 and 2670 A. The spectrum of pseudocumene (Ref 6) is plotted for comparison. The rather similar values of the lengths of the absorption maxima waves and their intensities in both spectra as well as the total character of the absorption point out that the position of the side chains in isopropyl-p-xylene is a 1,2,4 one. A condensation of p-xylene with propylene (in equimolar quantities) leads to the formation of the above-described 1,4-dimethyl-2-isopropyl-benzene with a certain quantity of the fraction with the boiling point 225-235 which has frozen. The crystals recrystallized from alcohol had a melting point of  $36-37^{\circ}$  and an empirical formula  $C_{14}^{H}_{22}$  according to the analysis. In the ultraviolet range the preparation obtained was very

In the ultraviolet range the preparation obtained was very similar to the character of the absorption spectrum of durene (Fig 1: II). 1,4-dimethyl-2-isopropyl-benzene was introduced into the reaction with cyclopentene in the presence of aluminum chloride which took place under weak heating. Cyclopentene did

Card 2/4

On Some Alkyl-cyclopentyl-benzenes

SOV/20-125-6-26/61

not enter completely the reaction. Among other methods, repeated recrystallizations from alcohol yielded two substances: (a) (spectrum see Fig 1), melting point 29.5-30.5°, empirical formula C<sub>16</sub>H<sub>24</sub> as fine needles; (b) fine-crystalline substance, melting point 80°. The substance (a) corresponds spectroscopically to durene. The same type of the absorption bands of cyclopentyl-p-xylene and durene is indicative of a structure of the hydrocarbons produced as follows: 1,4-dimethyl-2isopropyl-5-cyclopentyl-benzene. It is assumed that the hydrocarbon with the melting point 80° corresponds to pentasubstituted benzene with two methyl-, two cyclopentyl-, and one isopropyl group. It was, however, found that the spectrum of the aforesaid substance corresponds to that of dicyclopentylp-xylene (Ref 7). An empirical formula C<sub>18</sub>H<sub>26</sub> was analytically detected for the latter. It is quite obvious that this is dicyclopentyl-p-xylene. It is produced by the interaction between 1,4-dimethyl-2-isopropyl-benzene and cyclopentene under the given conditions and with the separation of the isopropyl group which is replaced by the cyclopentyl radical. The theory of the considerable difficulties met in the production of

Card 3/4

On Some Alkyl-cyclopentyl-benzenes

SOV/20-125-6-26/61

penta-substituted benzenes containing relatively heavy side chains is thus confirmed. There are 1 figure and 8 references,

5 of which are Soviet.

ASSOCIATION:

Institut neftekhimicheskogo sinteza Akademii nauk SSSR

(Institute of Petroleum-chemical Synthesis of the Academy of

Sciences USSR)

PRESENTED:

January 6, 1959, by A. V. Topchiyev, Academician

SUBMITTED:

November 25, 1958

Card 4/4

5(2)

AUTHORS:

Topchiyev, A. V., Academician,

SOV/20-125-6-28/61

Tsytovich, N. E., Pokrovskaya, Ye. S.

TITLE:

Synthesis and Properties of Alkyl Indanes With a Substituent in the Five-membered Ring (Sintez i svoystva alkilindanov s

zamestitelem v pyatichlennom kol'tse)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1275-1276

(USSR)

ABSTRACT:

After a survey of publications (Refs 1-8) the authors state that e.g. the synthesis of indane homologues with one or two side chains in the five-membered ring is complicated, i.e. they are obtained by closing the ring on the basis of phenyl-propionic acid,  $\beta$ -alkyl-phenyl-propionic acid, and benzyl-alkyl-malonic-ester - and has to pass through several stages. In the present paper the synthesis of alkyl indanes with a substituent in the five-membered ring is described by a simple method: according to the method of Thiele (Ref 6). The authors tried to condense indene with methyl-ethyl ketone according to Thiele, this method,

however, gave only a small yield of double-unsaturated

(dvunepredel'nyy) hydrocarbon (approximately 7%). The changed reaction conditions offered, however, a butylidene-indene yield

Card 1/3

Synthesis and Properties of Alkyl Indanes With a Substituent in the Five-membered Ring

SOV/20-125-6-28/61

of 38% of the theoretical one. The isolated hydrocarbon was yellow and had a boiling point of 122-122.50 at 6 torr. A hydrogenation at usual temperature and a hydrogen pressure of 125 atmospheric excess pressure in the presence of a nickelskeleton catalyst lead to a colorless secondary butyl-indane-1 (Table 1). A yellow hydrocarbon fraction with  $136^{\circ}/4 - 145^{\circ}/4$ boiling within a wide temperature range was isolated from indene and methyl-butyl ketone introduced into the reaction according to reference 8. A colorless hydrocarbon, i.e. 2-hexyl-indane-1 (Table 1) was produced by the hydrogenation of this fraction, a further above-mentioned treatment, and a chromatographic separation on silica gel. Still higher yields were obtained with 2 volumes HoSO, of indene and acetone in an ethereal solution and in the nitrogen current. The hydrocarbon can be separated more easily by this method. After hydrogenation and repeated vacuum distillation the wide yellow fraction  $89^{\circ}/4 - 116^{\circ}/4$ yielded colorless isopropyl-indane-1 (Table 1). This substance was produced already earlier by another method (Ref 9) which gave, however, only its boiling point. The refractive index of the resultant 2-hexyl-indane-1 differs from that of references

Card 2/3

Synthesis and Properties of Alkyl Indanes With a SOV/20-125-6-28/61 Substituent in the Five-membered Ring

3 and 5. This difference is assumed to be caused by a deviating structure of the hexyl radical. There are 1 table and 8 references, 2 of which are Soviet.

ASSOCIATION:

Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petroleum-Chemical Synthesis of the Academy of Sciences USSR)

SUBMITTED:

January 5, 1959

Card 3/3

5(3) AUTHORS:

SOV/20-128-3-34/58

Topchiyev, A. V., Academician,

SOV/20-128-3-34/58
Tsytovich, N. E., Pokrovskaya,

Ye. S.

TITLE:

Synthesis of Hydrocarbons of the Indana Series

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 558-560(USSR)

ABSTRACT:

In previous papers on the synthesis mentioned in the title, a complicated method of producing the alkyl indanes was described (Refs 1-3). Another method - alkylation of indane with unsaturated hydrocarbons for the introduction of side chains into the aromatic ring (Refs 4-7) - yielded satisfactory results. It was also used in the present paper. The alkylation was carried out under continuous mechanical stirring, and cooling with ice water. After 2-3 further distillations of the principal fraction of the reaction products separated by usual distillation, the position of the side chaines was determined by ultraviolet spectra (by M. V. Shishkina, Laboratoriya fiziki i fiziko-khimii nefti = Laboratory of Physics and Physical Chemistry of Petroleum , at the authors! institute). In all monosubstituted indanes, the side chain was in position 5 on the aromatic ring. The indane hydrocarbons obtained, together with their constants, are indicated in table 1. They are: tertiary butyl-indane-5 ( $C_{13}H_{18}$ ), heptyl-indane-5( $C_{16}H_{24}$ ),

Card 1/2

Synthesis of Hydrocarbons of the Indane Series SOV/20-128-3-34/58

iso-octyl-indane-5 (C<sub>17</sub>H<sub>26</sub>), cyclo-pentyl-indane-5 (C<sub>14</sub>H<sub>18</sub>), dicyclo-pentyl-indane (C<sub>14</sub>H<sub>18</sub>),

dicyclo-pentyl-indane ( $c_{19}H_{26}$ ), tricyclo-pentyl-indane ( $c_{24}H_{34}$ ), and cyclo-pentyl-indane-1 ( $c_{14}H_{18}$ ). There are 1 table and

13 references, 4 of which are Soviet.

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR

(Institute of Petroleum-chemical Synthesis of the Academy of

Sciences, USSR)

SUBMITTED: June 5, 1959

Card 2/2

5.3300

AUTHORS:

Shimanko, N. A., Pokrovskaya, Ye. S.

68165 07 (20, 420, 6

SOV/20-129-6-32/69

TITLE:

On Some Polyalkylbenzenes and Polyalkylcyclopentylbenzenes

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1313 - 1316

(USSR)

ABSTRACT:

Polyalkylbenzenes (heptylxylenes) were synthesized by alkylation of the 3 isomeric xylenes with heptene under the effect of concentrated  $H_2SO_A$  (Refs 1,2). The position of the side chains of

the hydrocarbons mentioned in the title was determined according to the spectra in the ultraviolet range. In the above mentioned condensation, the ratio xylene: heptene: sulfuric acid was 3:1:1. The monoalkylate yield was 50--70% with regard to heptene. No higher substitution products were formed. The hydrocarbon  $\text{C}_{15}^{\text{H}}_{24}$  with a boiling point  $97\text{--}98^{\text{O}}/4$  mm and a molecular

weight of 203, 202 was separated in the condensation of a-xylene with heptene. Its properties as well as those of all compounds prepared in this connection are shown in table i. A correspond-

Card 1/3

ing dimethylheptylbenzene was formed from m-xylene and heptene. Together with heptene, p-xylene yielded a hydrocarbon boiling

68165

On Some Polyalkylbenzenes and Polyalkylcyclopentylbenzenes SOV/20-129-6-32/69

at 1040/6 mm with a molecular weight of 204, 205. The position of the substituents in the substances prepared was determined on the basis of their absorption spectra in the close ultraviolet range. The spectra of heptyl-c-xylene (A, Fig 1: 1); heptyl-mxylene (B, Fig 1: 3), and heptyl-p-xylene (V, Fig 1: 5) are typical of compounds of the pseudocumene type (Fig 2: 1) because of their course. These structural types of the compounds A, B, and V are proved by the similarity of their absorption spectra with those of the following hydrocarbons: isooctylege xylene (Fig 1: 2, Ref 5), cyclohexyl-m-xylene (Fig 1: 4), and cyclohexyl-p-xylene (Fig 1 : 6, Ref 3), The practically complete accordance of the frequency characteristics indicates that the heptyl group is branched in all 5 cases and connected with the benzene ring by a secondary carbon atom. Thus, it may be taken for granted that the substances synthesized are: 1,2-dimethyl-4isoheptylbenzene, 1,3-dimethyl-4-isoheptylbenzene, and 1,4-dimethyl-2-isoheptylbenzene. It had been proved previously that in the reaction of a trisubstituted benzene with side chains in 1,2,4-position with cyclopentene (under the effect of aluminum chloride), a benzene substituted in the position 1,2,4,5 is formed as a main product. No isomerization took place. This

Card 2/3

68165

On Some Polyalkylbenzenes and Polyalkylcyclopentylbenzenes SOV/20-129-6-32/69

assumption was checked by the authors by means of heptyl-r-xy-lene and cyclopentene. The condensation of 89 g of heptyl-r-xy-lene with 22.5 g of cyclopentene yielded 1,4-dimethyl-2-heptyl-5-cyclopentylbenzene without isomerization. Its absorption spectrum (Fig 3: 1) resembles the spectrum of durene (Fig 2: a) and of cyclopentylpseudocumene (Fig 3: 2, Ref 3) as regards exterior and intensity. An analogous reaction was carried out between tert.butyl-o-xylene and cyclopentene. Figure 4: 1 shows the absorption spectrum of the substance formed: 1,2-dimethyl-4-tert.butyl-6-cyclopentylbenzene. There are 4 figures: 2 tables, and 8 references, 6 of which are Soviet.

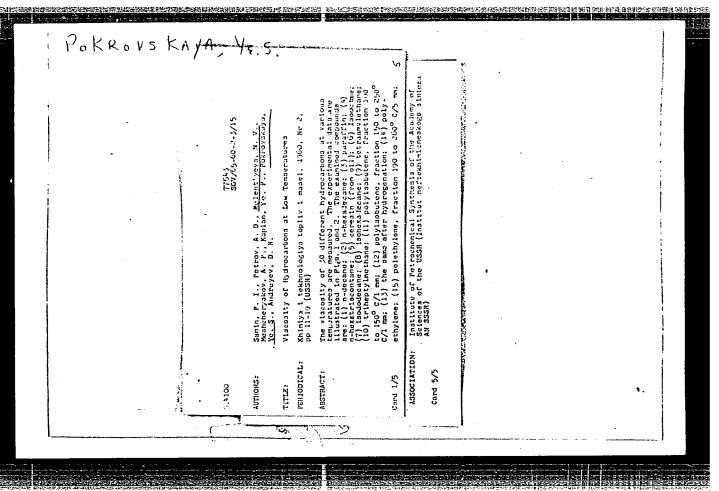
PRESENTED:

June 18, 1959, by A. V. Topchiyev, Academician

SUBMITTED:

May 27, 1959

Card 3/3



85957

5/020/60/134/005/C 34/C 35 XX B016/B054

5,3300

AUTHORS:

2209

Tsytovich, N. E. and Pokrovskaya, Ye. S.

Synthesis of Hydrocarbons of the Indan Series With Side TITLE:

Chains in the Five-membered and the Benzene Ring

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 5,

pp. 1119-1122

TEXT: The authors describe the synthesis of hydrocarbons of the indan series with substituents in the five- or six-membered ring, as well as with substituents in both rings at the same time. The substances A, C-E were produced for the first time. A) 1-cyclohexyl indan was produced (similar to 1-cyclopentyl indan, Ref. 2) by condensation of indene in ethereal solution with cyclohexanone (indene: ketone = 2:1) in the presence of KOH solution in methanol. B) 1-isopropyl indan (described earlier in Ref. 1). The reaction product of indene with acetone (2:1) was hydrogenated over nickel skeleton catalyst at an initial hydrogen pressure of 150 atm and room temperature, and subsequently distilled three times. Two carbon fractions (86-87 and 87-88°C) were isolated, whose Card 1/3